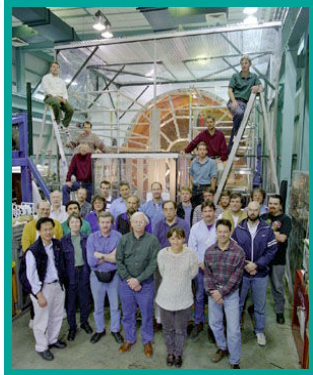


Berkeley Lab Overview

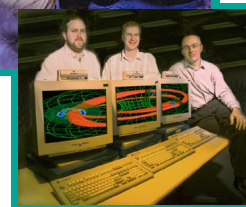
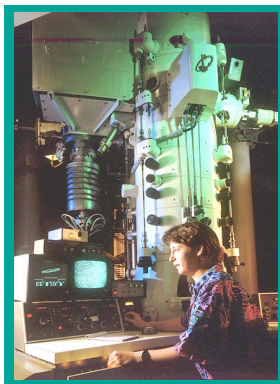


What Makes Berkeley Lab a National Laboratory?



**Operates User
Facilities**

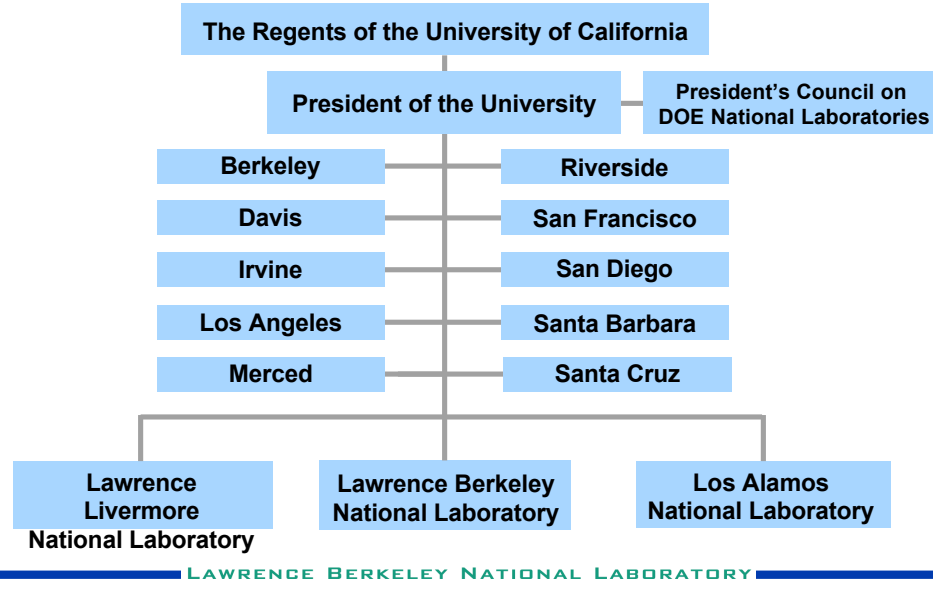
**Solves Complex
Problems of Scale**



**Undertakes
Interdisciplinary,
Collaborative Research**

LAWRENCE BERKELEY NATIONAL LABORATORY

The University of California: Ten Campuses and Three Laboratories



Serving the National Scientific/University Community: Berkeley Lab National User Facilities



Advanced Light Source



National Energy Research Scientific Computing Center



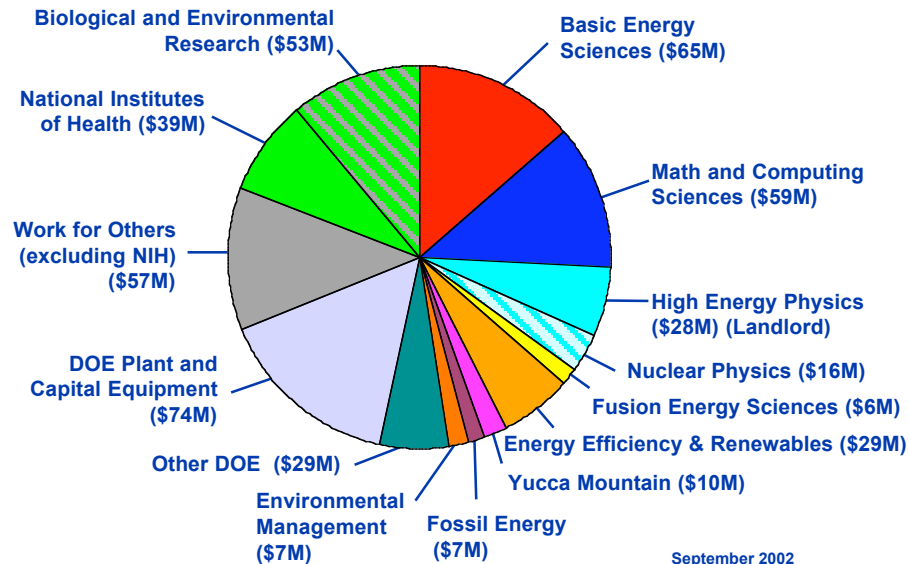
88-Inch Cyclotron



National Center for Electron Microscopy

LAWRENCE BERKELEY NATIONAL LABORATORY

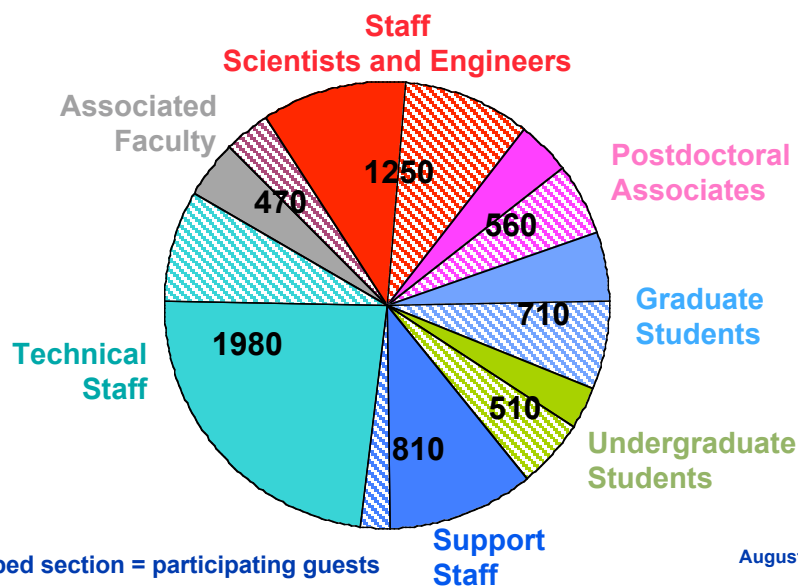
FY 2002 Costs: \$479M



September 2002

LAWRENCE BERKELEY NATIONAL LABORATORY

Berkeley Lab Staff and Guests: 6300



Striped section = participating guests

August 2002

Computing

Applied
Mathematics

National Energy
Research Scientific
Computing Center

Tools for Discovery

Computer
Science
Research

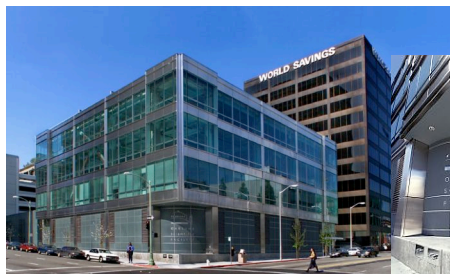
Science Grid and
Energy Sciences
Network

Computational Science Integrated in All Programs

NERSC III at the Oakland Scientific Facility



- 2048 processor/ 4 teraflops: most powerful unclassified computer in the world
- New Machine Room: 20,000 sf, (option to 40,000 sf)
- Facility dedication May 2001



LAWRENCE BERKELEY NATIONAL LABORATORY

Biosciences

*A Predictive Science: Integrated with the
Physical Sciences, Computing, and Engineering*

Genomics

Cell and Tissue
Organization

**Quantitative
Biology**

Structural
Biology

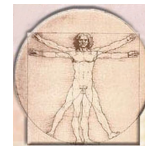
Computational
Biology

Quantitative
Imaging

Joint Genome Institute Highlights



- Draft sequence of human chromosomes 5, 16, and 19 completed



- Syntenic mouse chromosome 19 sequencing under way



- Puffer fish (Fugu) is next target organism: compact genome (300 megabases)



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